I-Chao Shen

jdilyshen@gmail.com   +886953610258

Room 501, CSIE Building, National Taiwan University

Research Interests

- Data-driven 2D/3D geometry analysis and processing, (Stereo) Image/Video Editing.

Education

- **National Taiwan University**   **Taipei, Taiwan**
  Ph.D. student in Computer Science   *Sep 2017 -*
  Advisor: Bing-Yu Chen.

- **National Taiwan University**   **Taipei, Taiwan**
  Master in Information Management and MBA   *Sep 2009 - June 2011*
  Advisor: Bing-Yu Chen.
  Thesis: "Perspective-aware Warping for Seamless Stereoscopic Image Cloning".

- **National Taiwan University**   **Taipei, Taiwan**
  Bachelor in Information Management   *Sep 2005 - June 2009*

Experiences

- **Research visitor - JST CREST Project**, Tokyo, Japan   *Feb 2018 - Aug 2018*
  Supervisor : Takeo Igarashi

- **Research Intern - Imagination Lab, Adobe Research**, San Jose, CA   *May 2015 - Aug 2015*
  Supervisor : Nathan Carr, Duygu Ceylan, Zhaowen Wang

- **Research Assistant - CITI, Academia Sinica**, Taipei, Taiwan   *Sep 2011 - July 2014*
  Supervisor : Wen-Huang Cheng

Publications

- **Perception-Driven Semi-Structured Boundary Vectorization**
  Shayan Hoshyari, Edoardo Dominici, Alla Sheffer, Nathan Carr, Duygu Ceylan, Zhaowen Wang, I-Chao Shen
  ACM Transactions on Graphics (Proceedings of SIGGRAPH 2018), to appear.

- **High-resolution 360 Video Foveated Stitching for Real-time VR**
  Wei-Tse Lee*, Hsin-I Chen*, Ming-Shiuan Chen, I-Chao Shen and Bing-Yu Chen
  Computer Graphics Forum (Proceedings of Pacific Graphics 2017)

- **A Scalable Active Framework for Region Annotation in 3D Shape Collections**
  Li Yi, Vladimir G. Kim, Duygu Ceylan, I-Chao Shen, Mengyan Yan, Hao Su, Cewu Lu, Qixing Huang, Alla Sheffer, and Leonidas Guibas
  ACM Transactions on Graphics (Proceedings of SIGGRAPH Asia 2016)

- **Retargeting 3D Objects and Scenes with a General Framework**
  Chun-Kai Huang, Yi-Ling Chen, I-Chao Shen, and Bing-Yu Chen
  Computer Graphics Forum (Proceedings of Pacific Graphics 2016)

- **Data-driven Handwriting Synthesis in a Conjoined Manner**
  Hsin-Yi Chen, Tse-Ju Lin, I-Chao Shen, and Bing-Yu Chen
  Computer Graphics Forum (Proceedings of Pacific Graphics 2015)

- **Gestalt Rule Feature Points**
  I-Chao Shen, and Wen-Huang Cheng
  IEEE Transactions on Multimedia (TMM), 17(4), pp. 526-537, 2015

- **Geometrically Consistent Stereoscopic Image Editing using Patch-based Synthesis**
  Sheng-Jie Luo, Ying-Tse Sun, I-Chao Shen, Bing-Yu Chen, and Yung-Yu Chuang
  IEEE Transactions on Visualization and Computer Graphics (TVCG), 21(1), pp. 56-67, 2015

- **Stroke-guided Image Synthesis for Skeletal Structure Editing**
  Sheng-Jie Luo, Chin-Yu Lin, I-Chao Shen, and Bing-Yu Chen
  Computer Graphics Forum (Proceedings of Pacific Graphics 2013)
- **Perspective-Aware Warping for Seamless Stereoscopic Image Cloning**
  Sheng-Jie Luo, I-Chao Shen, Bing-Yu Chen, Wen-Huang Cheng, and Yung-Yu Chuang
  ACM Transactions on Graphics (Proceedings of SIGGRAPH Asia 2012).

Teaching Experiences

- **Teaching Assistant**
  - **Computer Organization and Structure** *National Taiwan University*   *Sep 2009 - Jan 2010*

Awards and Honors

- MediaTek Fellowship   *2017*

Professional Services

- **Reviewer:** Pacific Graphics 2013, CAD/Graphics 2013, Pacific Graphics 2016, SIGGRAPH 2018, Multimedia 2018